CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CEMENT/2016-17 Date: 04.11.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
*NAME OF THE WORK	:	Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
*REFERENCE	:	EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	02.11.2016
PERIOD OF TESTING	:	02.11.2016 to 04.11.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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****

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Technical Manager

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/SAND-Gradation/2016-17 : 04.11.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. T. Gopinathreddy,**
No.18, 6th Cross, SSA Road, Hebbal, Bangalore.

*** Name of Work** : Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 02.11.2016

Date of Testing : 04.11.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	77.10	60-95	75-100	85-100	95-100
1.18	55.10	30-70	55-90	75-100	90-100
600 Micron	24.10	15-34	35-59	60-79	80-100
300 Micron	14.10	5-20	8-30	12-40	15-50
150 Micron	5.20	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/AGG/GR/2016-17 : 04.11.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. T. Gopinathreddy,**
No.18, 6th Cross, SSA Road, Hebbal, Bangalore.

*** Name of Work** : Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 02.11.2016

Date of Testing : 04.11.2016

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.40	95-100	85-100
20	37.00	30-70	0-20
10	16.00	10-35	0-5
4.75	3.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Vidya

VIDYARANI P.K.
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Job No.: CTCE/BBMP/W.No.09/TGR /STEEL/2016-17 04.11.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
Name of the Work	:	Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
Date of Test	:	04.11.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/W.No.09/TGR /STEEL/2016-17 04.11.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer**, Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	:	**Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
Name of the Work	:	Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
Date of Test	:	04.11.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.30	O.K	O.K

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CC Solid Block/2016-17 : 04.11.2016

TEST REPORT ON SOLID CONCRETE BLOCKS

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
* Name of the Work	: Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
Sample Received on	: 02.11.2016
Date of Testing	: 04.11.2016
Size of Blocks	: 400mm x 200mm x 200mm
Cross Sectional Area	: 80000 mm^2
Technical Reference	: IS: 2185 (Part 1) - 2005
No. of Blocks Tested	: 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.25	262.8	3.29	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.15	265.8	3.32	
3	Block 3	36.23	266.3	3.33	
4	Block 4	35.15	262.5	3.28	
5	Block 5	34.15	260.8	3.26	
6	Block 6	35.26	261.4	3.27	
7	Block 7	36.33	260.5	3.26	
8	Block 8	34.18	263.5	3.29	

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 13.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
* Name of the work	: Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 13.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.11.2016	13.12.2016	8.182	478.3	21.26
2	15.11.2016	13.12.2016	8.236	490.3	21.79
3	15.11.2016	13.12.2016	8.312	502.3	22.32

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 13.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.11.2016	13.12.2016	8.182	485.6	21.58
2	15.11.2016	13.12.2016	8.229	499.8	22.21
3	15.11.2016	13.12.2016	8.398	510.3	22.68

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
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* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 13.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.11.2016	13.12.2016	8.125	489.9	21.77
2	15.11.2016	13.12.2016	8.225	502.2	22.32
3	15.11.2016	13.12.2016	8.378	510.3	22.68

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 13.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
* Name of the work	: Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 13.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.11.2016	13.12.2016	8.275	476.9	21.20
2	15.11.2016	13.12.2016	8.326	503.8	22.39
3	15.11.2016	13.12.2016	8.415	518.2	23.03

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 18.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
* Name of the work	: Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 18.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2016	18.12.2016	8.182	502.6	22.34
2	20.11.2016	18.12.2016	8.291	516.3	22.95
3	20.11.2016	18.12.2016	8.382	529.2	23.52

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 26.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	: **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.
* Name of the work	: Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.
* Reference	: EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day
Sample Received on	: 26.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.11.2016	26.12.2016	8.120	499.3	22.19
2	28.11.2016	26.12.2016	8.292	519.3	23.08
3	28.11.2016	26.12.2016	8.312	525.8	23.37

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Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 23.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.

* **Name of the work** : Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Reference** : EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 23.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.11.2016	23.12.2016	8.102	365.6	16.25
2	25.11.2016	23.12.2016	8.205	379.3	16.86
3	25.11.2016	23.12.2016	8.380	392.6	17.45

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

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Technical Manager

Sadha
AE

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.09/TGR/CSR-/11/183c/CUBE/2016-17 23.12.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* **Customer** : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Agency** : **Mr. T. Gopinathreddy,** No.18, 6th Cross, SSA Road, Hebbal, Bangalore.

* **Name of the work** : Construction of concrete roads in Thindlu surrounding area in Ward No.09 of Vidyaranyapura Sub Division, BBMP, Bangalore.

* **Reference** : EE/BTP/BBMP/E-PMT/174/2015-16 Dated: 17.11.2015

* **Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

* **Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 23.12.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.11.2016	23.12.2016	8.112	375.5	16.69
2	25.11.2016	23.12.2016	8.235	392.6	17.45
3	25.11.2016	23.12.2016	8.305	412.3	18.32

* Information is furnished by the Customer/Representative

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****

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